

FIG. 1

REPLACEMENT SHEET

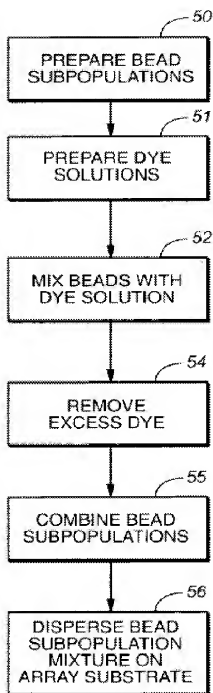
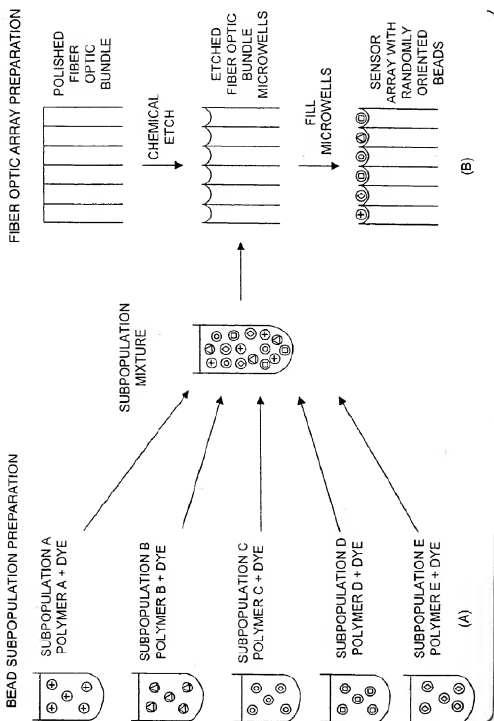


FIG. 2



REPLACEMENT SHEET

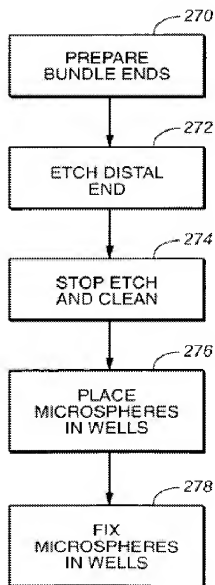


FIG. 4

REPLACEMENT SHEET

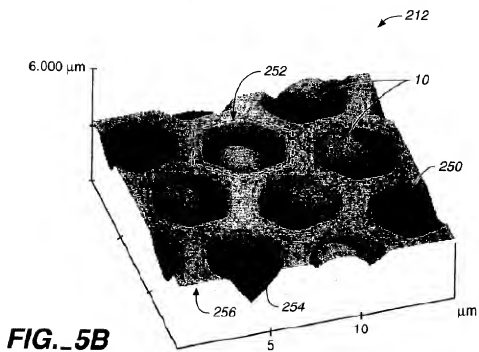
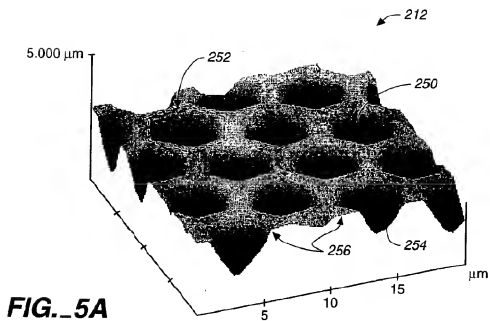


FIG._6A

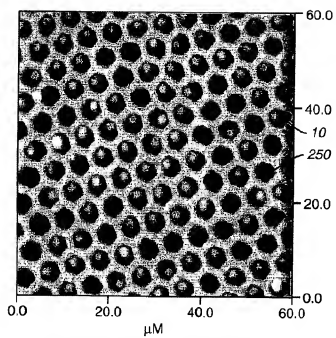
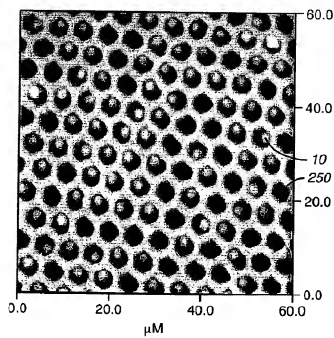


FIG._6B



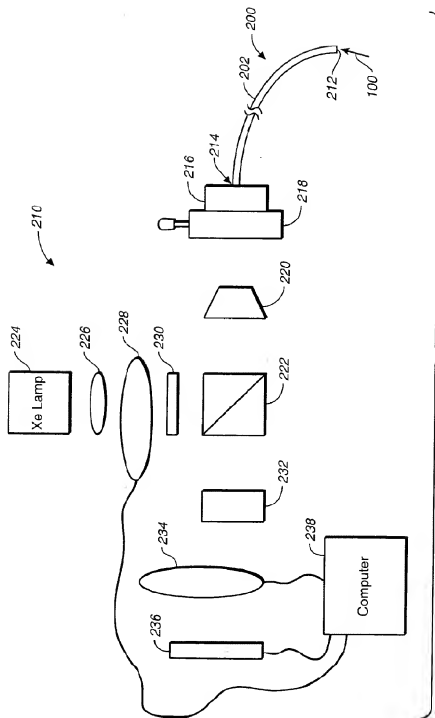
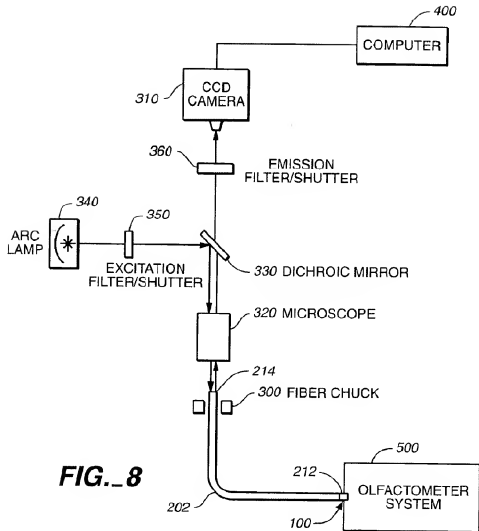
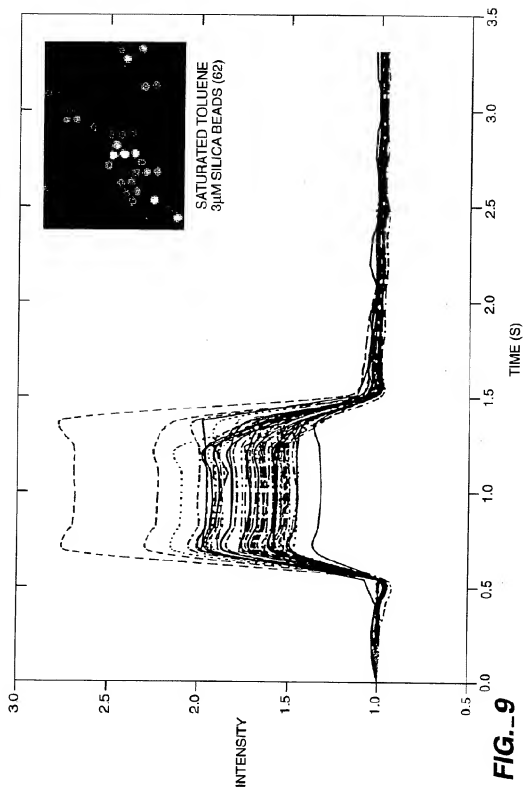
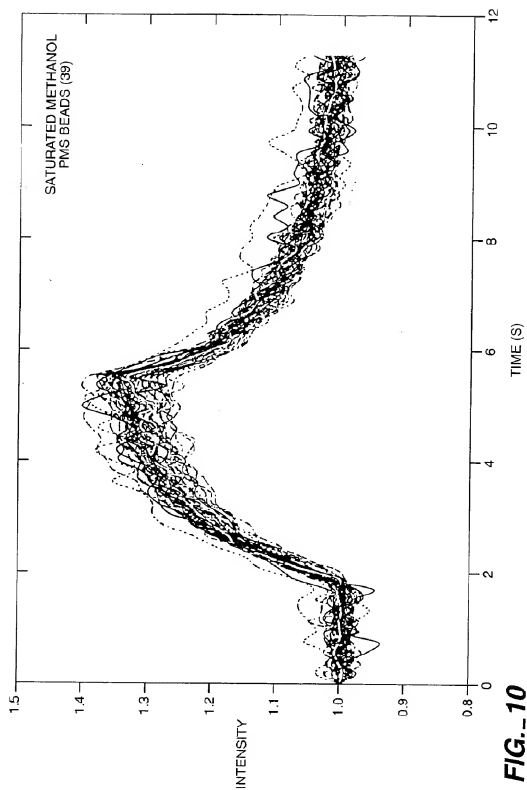


FIG. 7

REPLACEMENT SHEET







REPLACEMENT SHEET

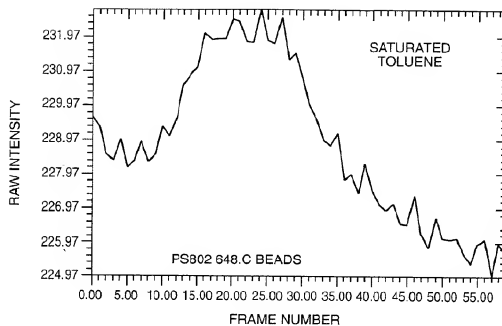


FIG._11A

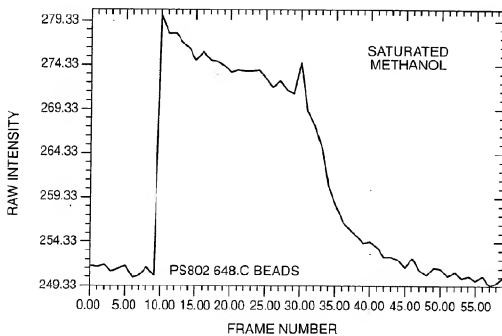


FIG._11B

REPLACEMENT SHEET

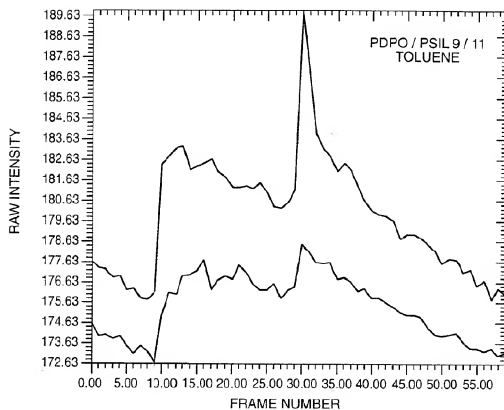


FIG._12A

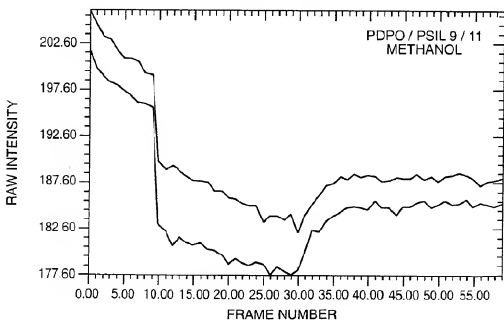
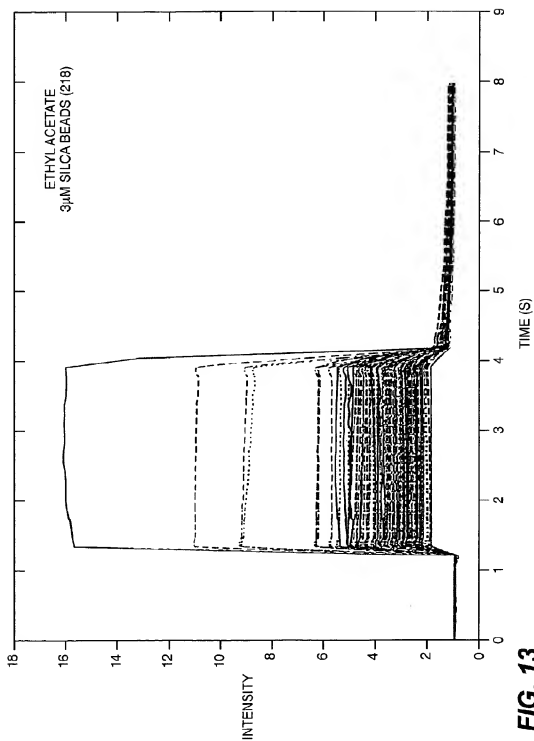
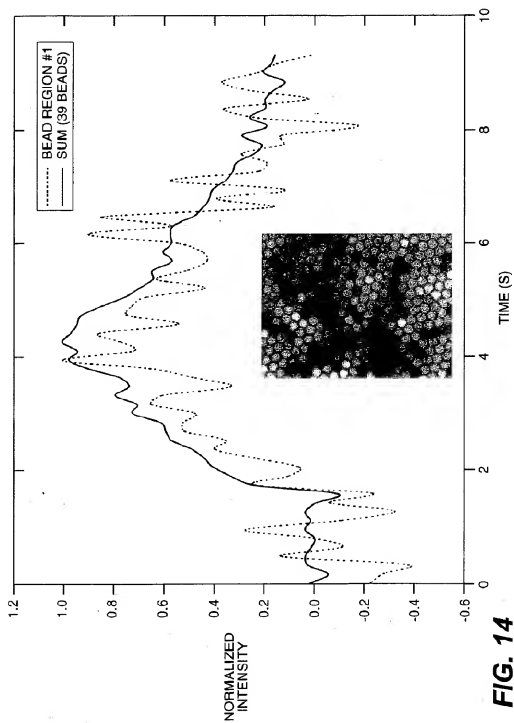
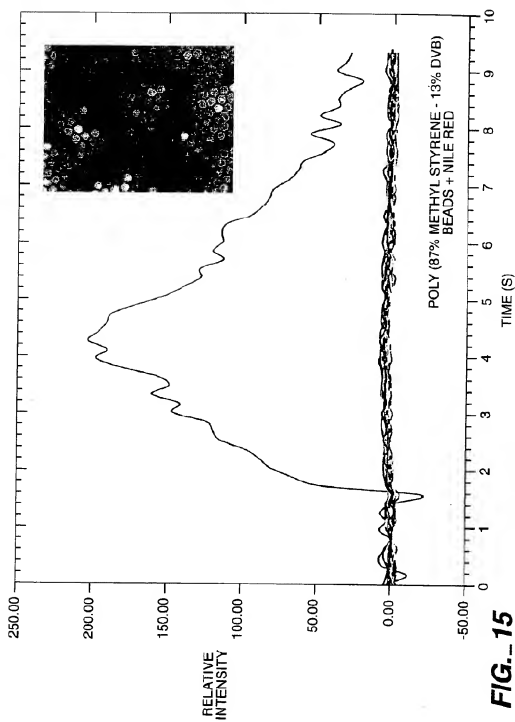


FIG._12B







REPLACEMENT SHEET

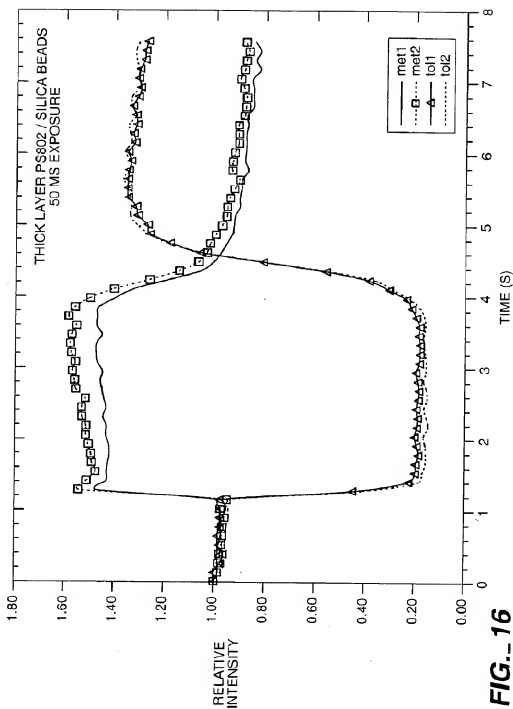


FIG. 16

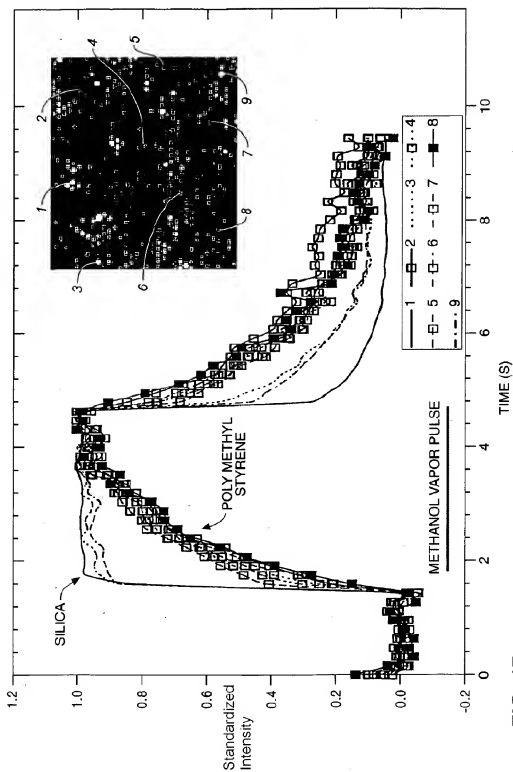
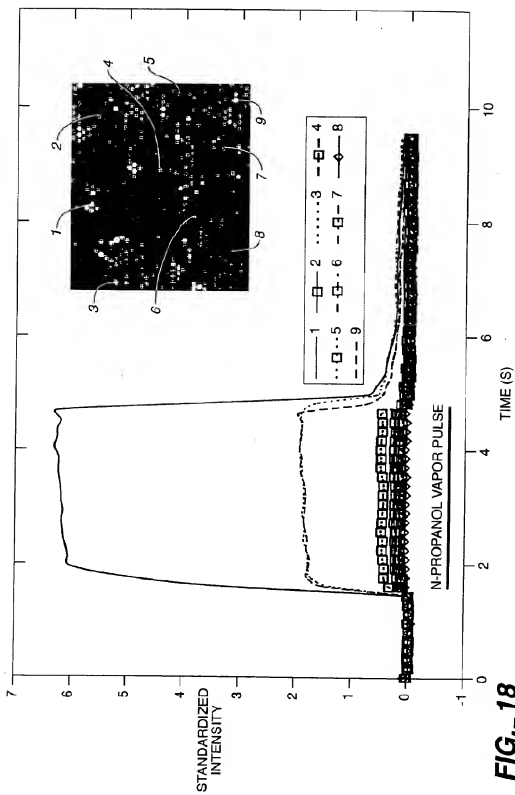
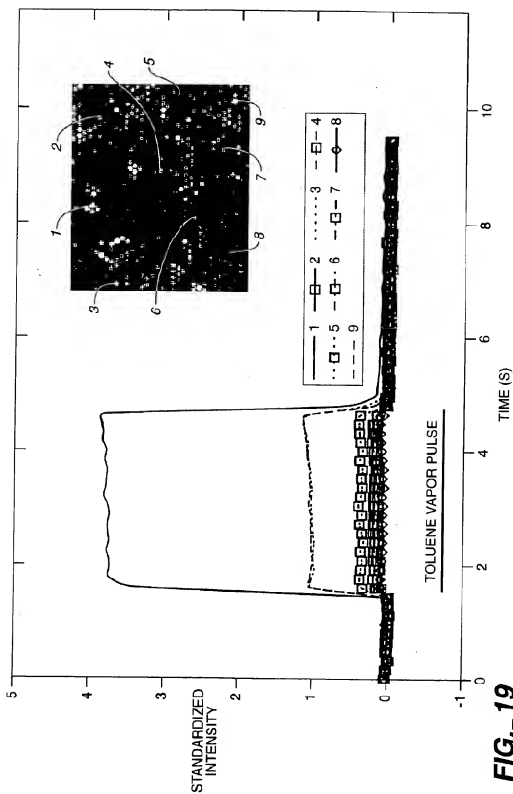


FIG. 17

**FIG._18**



REPLACEMENT SHEET

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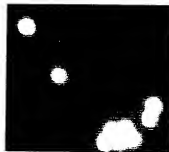


AIR

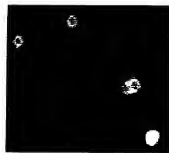


TOLUENE

POLY METHYL STYRENE /
2% DIVINYL BENZENE



AIR

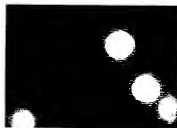


TOLUENE

POLY METHYL STYRENE



AIR



TOLUENE

FIG..20

REPLACEMENT SHEET

- 1) β -glo (segment of human β -globin)³⁶
TCA ACT TCA TCC ACG TTC ACC (SEQ ID NO: 12)
- 2) IFNG (interferon gamma 1)³⁶
IFNG TGG GTT CTC TTG GCT GTT ACT (SEQ ID NO: 13)
- 3) IL2 (interleukin-2)²⁵
TA CAA GAA TCC CAA ACT CAC CAG (SEQ ID NO: 14)
- 4) IL4 (interleukin-4)²⁵
CC AAC TGC TTC CCC CTC TGT (SEQ ID NO: 15)
- 5) IL6 (interleukin-6)²⁵
GT TGG GTC AGG GGT GGT TAT T (SEQ ID NO: 16)
- 6) K-ras WT²⁷
GGA GCT GGT GGC GTA (SEQ ID NO: 17)
- 7) H-ras WT²⁷
CCG GCG GTG T (SEQ ID NO: 18)
- 8) CFTR (cystic fibrosis exon 11)¹³
CAT TAT ACT TGT AGA G (SEQ ID NO: 19)
- 9) R553X (cystic fibrosis exon 10)¹³
TGT AGA ATT ATC TTC (SEQ ID NO: 20)
- 10) PAN132¹⁶ (human peripheral lymphocyte)
CCT CTA TAC TTT AAC GTC AAG (SEQ ID NO: 21)
- 11) Scherm-2¹⁶
AAG TTT AAC CTA TAC CCT GTC (SEQ ID NO: 22)
- 12) Hakala-1²⁰
CCT ATG ATG AAT ATA G (SEQ ID NO: 23)
- 13) Hakala-2²⁰
AAT ATG ATA ATG GCC T (SEQ ID NO: 24)
- 14) complement to probe 1
TG AAC GTG GAT GAA GTT G (SEQ ID NO: 6)
- 15) complement to probe 2
AG TAA CAG CCA AGA GAA CCC AAA (SEQ ID NO: 7)
- 16) complement to probe 3
CT GGT GAG TTT GGG ATT CTT GTA (SEQ ID NO: 8)
- 17) complement to probe 4
AC AGA GGG GGA AGC AGT TGG (SEQ ID NO: 9)
- 18) complement to probe 5
AA TAA CCA CCC CTG ACC CAA C (SEQ ID NO: 10)
- 19) complement to probe 6
TAC GCC ACC AGC TCC (SEQ ID NO: 25)
- 20) complement to probe 7
ACA CCG CCG G (SEQ ID NO: 26)
- 21) complement to probe 8
CTC TAC AAG TAT AAT G (SEQ ID NO: 27)
- 22) complement to probe 9
GAA GAT GTT AAA GTA TAG AGG (SEQ ID NO: 28)
- 23) complement to probe 10
CTA GAC GTT AAA GTA TAG AGG (SEQ ID NO: 29)
- 24) complement to probe 12
CTA TAT TCA TCA TAG G (SEQ ID NO: 30)
- 25) complement to probe 13
AGG CCA TTA TCA TAT T (SEQ ID NO: 31)

FIG. 21

REPLACEMENT SHEET

Probe	[Cy5]	[Tamra]	[Eu-dye]	Correct Target Identification
HWt	1		0.1	93%
Bglo	0.5		0.05	88%
KWt	0.5		0.005	91%
IL6	0.1		0.1	96%
IL4	0.1		0.005	95%
IFNG		0.4	0.005	95%
IL2		0.04	0.05	98%

FIG. 22

REPLACEMENT SHEET

Target Identity	No. of beads in analysis section	[Cy5]	[Tamra]	[Eu-dye]	Correct Target Identification
2	19		3	0.5	89%
4	15	0.01	0.1	0.1	87%
5	13		0.1	0.1	100%
9	5	0.01			100%
10	14			0.001	86%
11	12		0.1		92%
15	8	0.01	0.1		100%
16	24	0.1			92%
21	21	0.1	3		95%
24	16	0.3	3		94%

FIG. 23

REPLACEMENT SHEET

Sequences	Number of microspheres	Mean background ± s.d.	Fluorescence after hybridization	Signal
Complementary target	10	997.01 ± 4.62	1036.94	39.93
	10	1003.46 ± 6.05	1035.83	32.37
	10	957.44 ± 5.59	985.25	27.81
	100	977.88 ± 3.21	1010.74	32.86
Poly A	10	1213.79 ± 6.33	1221.61	(7.81)
	10	1185.25 ± 9.39	1194.74	(9.49)
	10	1190.20 ± 4.85	1198.35	(8.15)
	100	1190.67 ± 4.05	1199.81	(9.14)
IL2	10	1090.58 ± 4.97	1096.11	(5.53)
	10	1120.62 ± 3.09	1113.88	(-6.74)
	10	1101.82 ± 5.51	1091.28	(-10.55)
	100	1104.36 ± 1.40	1103.06	(-1.30)

FIG. 24

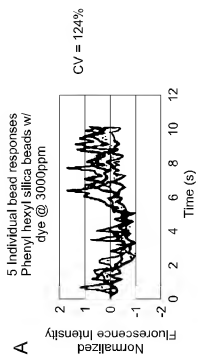


FIG. 25

REPLACEMENT SHEET

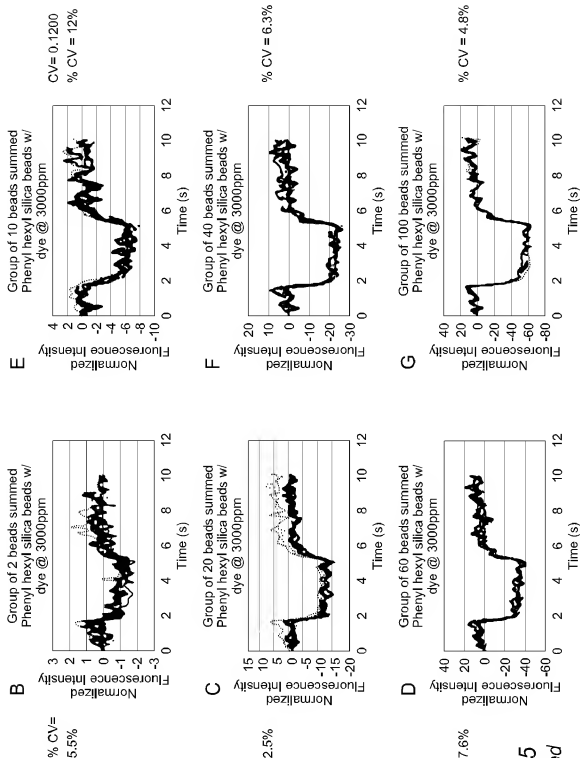


FIG. 25

Continued